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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/633,830

08/04/2003

Jeffrey D. Stroomer

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12/07/2005

XILINX, INC

ATTN: LEGAL DEPARTMENT

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EXAMINER

DINH, PAUL

ART UNIT

PAPER NUMBER

2825

DATE MAILED: 12/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/633,830	<b>Applicant(s)</b> STROOMER ET AL.	
	<b>Examiner</b> Paul Dinh	<b>Art Unit</b> 2825	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 04 August 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 12-15 is/are allowed.
- 6) ☒ Claim(s) 1,2,4,6,11,16-19,21 and 23 is/are rejected.
- 7) ☒ Claim(s) 3,5,7-10,20,22 and 24 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

*The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:*

*A person shall be entitled to a patent unless –*

*(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.*

1. Claims 1-2, 4, 6, 11, 16-19, 21 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Duboc Et Al (USP 6425116)

(Claim 1 and similarly recited claims 16, 18)

Generating HDL code for one or more of a plurality of high-level subsystems in a High-level design tagged by a user for HDL code generation (col 6 lines 3-16, fig 1-2, 5, 7); and

Reusing previously generated HDL code instead of generating new HDL code for each high-level subsystem tagged by the user for HDL code reuse generation (col 6 lines 3-16, fig 1-2, 5, 7).

(Claims 2, 17, 19) detecting whether one or more attributes of a high-level subsystem have changed since HDL code for the high-level subsystem was previously generated; and if one or more attributes of the high-level subsystem have changed, then generating new HDL code for the high-level subsystem in place of the previously generated HDL code (fig 2-6).

(Claims 4, 21) further comprising, for each high-level subsystem for which HDL code has been generated, simulating a selected one of the high-level subsystem and the HDL code in response to a user-specified selection (col 10 line 58+, col 11, fig 2, 5, 7).

(Claim 6, 23) further comprising providing for each high-level subsystem first and second user configurable parameters (fig 1-2, 5-7), wherein a state of the first parameter selects Between generating HDL code from a high-level subsystem and reusing previously generated HDL code for the high-level subsystem, and a state of the second parameter selects between simulating the high-level subsystem and simulating HDL code associated with the high-level subsystem (col 6-8. 10-11).

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(Claim 11) further comprising presenting to the user a configurable high-level subsystem that includes a library of blocks (fig 2-3, 5), a user-configurable first parameter that selects one of the blocks to be used in generating HDL code (fig 1-2, 5-7), a user-configurable second parameter that controls reuse of previously generated HDL code (col 6 lines 3-16, fig 1-2, 5, 7), and a user-configurable third parameter that controls selecting between a high-level subsystem and generated HDL code for simulation (col 10-11, fig 2, 5, 7).

2. Claim 1 and similarly recited claims 16, 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Panchul Et Al (US Patent Publication No. 2001/0034876)

Generating HDL code for one or more of a plurality of high-level subsystems in a High-level design tagged by a user for HDL code generation (fig 2, para 0016, 0102, 0109, 0182); and

Reusing previously generated HDL code instead of generating new HDL code for each high-level subsystem tagged by the user for HDL code reuse generation (para 0029, 0179).

#### ***Allowable Subject Matter***

Claims 3, 5, 7-10, 20, 22, and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 12-15 are allowed.

Claims 3, 5, 7-10, 20, 22, and 24 be allowable and Claims 12-15 are allowed because the prior art of record does not teach or suggest the limitations in:

Claim 3 and similarly recited claim 20.

Claim 5 and similarly recited claim 22.

Claim 7 and similarly recited claims 12, 24.

#### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Dinh whose telephone number is 571-272-1890. The examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Dinh  
Patent Examiner

A handwritten signature in black ink that reads "Paul Dinh". The signature is written in a cursive, flowing style with a long, sweeping underline that extends to the right.